

**ABSTRACT OF THE DISCLOSURE**

The invention relates to a polymer of ethylene which has a  $\mu_0/\mu_2$  ratio of at least 13; and a high load melt index HLMI lower than 8 g/ 10 min, and a value of  $\tan \delta$  at  $\omega/\omega_c = 0.01$  of less than 1.3, where  $\delta$  is  $G''/G'$ ,  $\omega$  is the frequency at which  $G''$  and  $G'$  are measured and  $\omega_c$  is the frequency at which  $G'' = G'$ , and  $G$  and  $G''$  are respectively the elastic modulus and viscous modulus, both measured in Pa at 190°C; a process for making the polymer using a catalyst comprising chromium supported on a silica-titania support is also described.